

150 faculty members urge Senate ratification of nuclear ban treaty

A group of 150 members of the MIT faculty sent an open letter to the United States Senate Friday urging the ratification of the nuclear test ban treaty. The letter speaks of the treaty as the first partial success in imposing limits and controls on the nuclear arms race.

The treaty prohibits explosions in the atmosphere, under water and in outer space. The signers feel that the present monitoring devices for detecting nuclear explosions make it "inconceivable that any foreign country could carry out a significant testing program in these environments under cover of secrecy."

The letter stresses the fact that the treaty will not make the United States less secure. "By limiting nuclear tests to fallout-free underground explosions the treaty will retard the spread of nuclear weapons to other countries. This will enhance the security of the United States."

The signers "feel that this treaty is an important first step in advancing world peace. A strong affirmation by the United States Senate will be a clear reassertion to the rest of the world of our dedication to peace and security."

Faculty members recently selected to new positions

Dr. Lan J. Chu of the Department of Electrical Engineering has been appointed Webster Professor of Electrical Engineering, succeeding Dr. Ernest A. Guillemin. A native of Kiangsu, China, Dr. Chu has been an MIT staff member since 1938. He became a professor in 1952.

Other recent Institute appointments include that of Dr. Jack P. Ruina as Professor of Electrical Engineering and that of Jack W. Christiansen as MIT Industrial Liaison Officer.

Dr. Ruina, former Director of the Advanced Research Projects Agency of the Department of Defense, will serve as Special Assistant to Vice President James McCormack and will assist Dean of the School of Engineering Gordon S. Brown in addition to teaching and research. He is a specialist in the statistical theory of noise and in radar engineering.

Jack Christensen, whose appointment became effective September 1st, received his S.B. in Electrical Engineering from MIT in 1958. He is also a graduate of the U.S. Air Force Pilot Training School and the Strategic Air Command Combat Crew Training School.

Prior to his appointment to his present office, he was a combat pilot in the SAC, where he received extensive training concerning nuclear weapon operations and effects.

Acquaintance dance at Walker Friday

The annual All-Tech Acquaintance Dance is Friday evening at 8 pm in Walker Memorial. The George Graham Orchestra and an MIT vocal group, the Logarithms, will entertain. Free refreshments will be served.

Staff candidates' meeting

There will be a meeting of candidates for the staff of The Tech tomorrow afternoon at 4:00 pm in The Tech's office, second floor of Walker Memorial.

Any students who were unable to attend the first meeting are welcome to attend.

Apollo guidance and navigation system topic of national press conference here

The guidance and navigation system of the Apollo spacecraft was the subject of a national press conference held here yesterday morning. About 40 reporters attended the 10:30 a.m. briefing at 75 Cambridge Parkway, site of the guidance and navigation work.

The Apollo project, a program of the National Aeronautics and Space Administration, calls for a space craft manned by three astronauts, to orbit the moon and release a lunar excursion vehicle. With two astronauts, this vehicle will descend to the moon's surface and later return to the mother ship.

Primary responsibility for the guidance and navigation system of the project rests with MIT's Instrumentation Laboratory.

At the press conference it was reported that the guidance and navigation system will be totally contained on board the space craft and will be capable of operation, if necessary, without information or instructions from earth.

The astronauts will have great flexibility in the way the system is operated, ranging from manual modes to automatic modes. This flexibility in what engineers call the man-machine interface represents one of the important advances being incorporated into the design.

The job of getting the Project Spacecraft to the moon and back can be described in terms of the two principal functions.

Navigation First Function

The first function is navigation. This is determination of position in space and is similar to pinpointing position on earth as is done by a ship navigator at sea.

The second function is guidance. Once having established the position and velocity of the spacecraft, the system must then establish the steering direction and the necessary starting and stopping of the controllable engines.

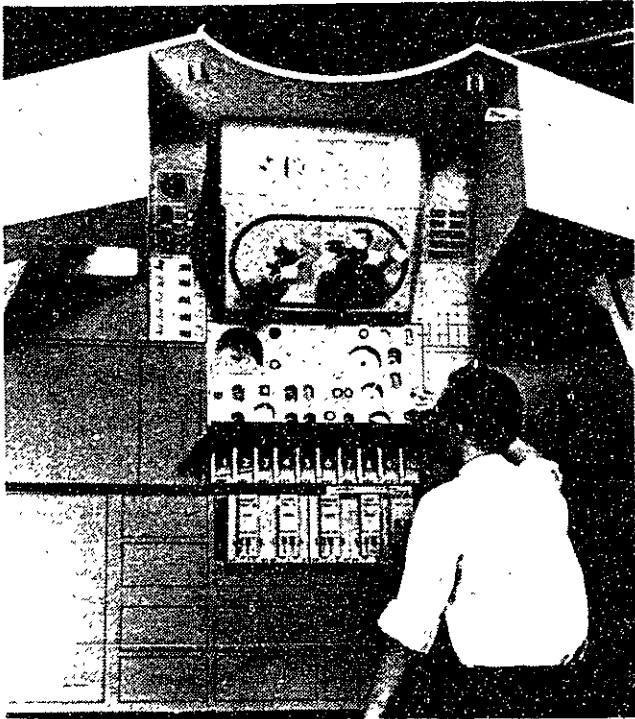
To carry out these functions, the Apollo guidance and navigation system will be composed of three principal subunits—an inertial measurement unit, an optical measurement unit and a computer unit—plus the displays and controls that relate the three and provide the flexible man-machine interface.

The initial measurement unit is an assembly of gyroscopes and accelerometers that can establish a fixed reference from within which it can measure the direction and speed of the spacecraft and determine any changes in either direction or speed.

Optical Unit Has Telescope

The optical measurement unit contains a telescope and a space sextant, plus associated displays and controls. The sextant is similar to nautical sextants and embodies numerous automatic features.

The inertial measurement unit



MIT engineer inspects mockup of guidance system that will help carry astronauts to the moon and back.

and the optical unit will be used by the crew to take navigational readings and to pinpoint spacecraft position in space on the route to the moon and back.

The third and one of the most important elements of the system is a compact but extremely versatile digital computer which will

(Please turn to Page 10)

Received recently

Millions in grants from gov't, private groups to support science, engineering research work

During the past few months, MIT has received many millions of dollars in grants from various sources, including industry, private foundations and government. The grants will be used to support research in a wide variety of science and engineering fields, ranging from earth sciences to neuropsychology.

Anaconda Aids 2 Undergrads

The Anaconda Company, a metallurgical firm, has established a five-year \$50,000 fund to provide support for a new undergraduate scholarship program.

The grant will be used to aid two undergraduate students a year in the fields of the earth sciences and materials science and engineering. It will also provide MIT with annual unrestricted funds to underwrite the overall teaching and research programs.

The Institute has also been awarded six federal contracts involving nearly \$6.6 million.

One is a \$65,000 contract for an analysis of Soviet motivations and interests in various arms control

and disarmament measures, to technology and biomedical research, first in an annual series for the support of a new center to be operated jointly by 12 New England colleges and institutions. MIT will act as co-ordinating member of the group, and as such will receive the grants.

Human Brain Under Study

The John A. Hartford Foundation, Inc., has awarded a grant of \$290,796 to MIT in support of research on the functions of the human brain.

The three-year program, under the direction of Dr. H. L. Teuber, will be carried out at MIT in a newly organized laboratory devoted to the study of brain-injury in adults, and to the exploration of effects of brain-damage in children. Stress will be laid on developing methods for measuring sensory and motor functions after injuries to the nervous system and on detecting those factors which hasten or retard recovery, as well as those which promote or prevent the onset of epilepsy.

The John A. Hartford Foundation is a charitable organization, with offices in New York City engaged in the promotion of medical research.

The Institute will also share in a \$2.8 million Federal Grant from NIH for research in computer

Forty 8.041 dropouts offered special exam

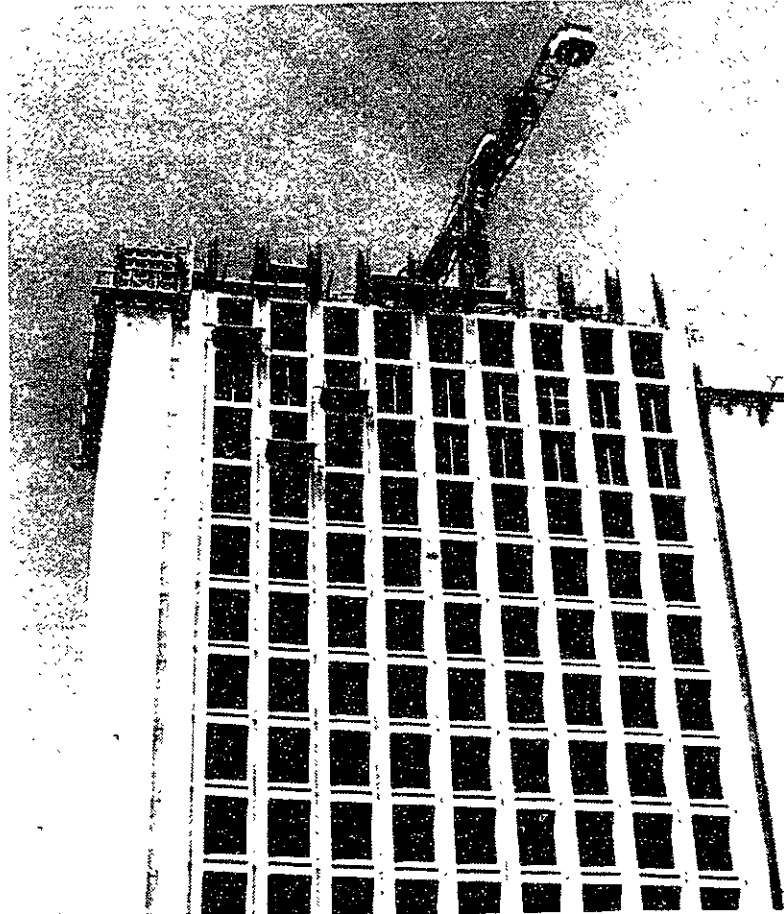
About forty students were given the opportunity to take a special examination this past week to fulfill departmental requirements in a sophomore physics course, 8.041. These forty, notified by letter this summer, were among approximately eighty students who had dropped the course last term previous to the 13-week deadline.

According to Prof. David Frisch, faculty member in charge of last term's course, twenty of the forty students contacted took the examination. "Only those who looked like they'd have a good chance of passing," commented Frisch, were allowed to take this examination. Frisch also indicated that about half the students taking the exam, passed it.

Prof. William Buechner, head of the Department of Physics, added that students given the chance to take this exam, had generally dropped the course near the end of the term and had essentially completed all course work except for taking the final examination.

The special test was technically an 8.04 advance standing exam. Registration officers were asked to substitute these course credits for departmental 8.041 requirements.

The Tech



Fraternity, non-fraternity cums at 3.7

Beta Theta Pi led all living groups in academic rank last term, with a composite sum of 4.0. The all-fraternity average was 3.7 and the average of all non-fraternity groups also was 3.7.

The pledges of Theta Delta Chi led all groups in freshman average, garnering a 4.0. Fraternity freshmen averaged 3.5, while non-fraternity frosh had a 3.6 average.

Avg.	Rank	Living Group	Ranks Fall '62	Frosh Avg.	Frosh Rank
4.0	1	Beta Theta Pi	1	3.8	6
3.9	2	Delta Kappa Epsilon	9	3.8	5
	3	Alpha Epsilon Pi	3	3.7	7
3.8	4	MIT Student House	4	3.8	4
	5	Senior House	2	3.8	5
	6	Sigma Nu	31	3.5	24
	7	Sigma Alpha Mu	8	4.0	2
	8	Pi Lambda Phi	26	3.7	10
3.7	9	Chi Phi	5	3.5	23
	10	Phi Sigma Kappa	17	3.2	30
	11	Bexley Hall (120 Bay State Road)	6	—	—
	12	Sigma Chi	10	3.7	8
	13	Zeta Beta Tau	7	3.2	31
	14	East Campus	14	3.6	17
	15	NRSA	19	3.6	15
	16	Lambda Chi Alpha	24	3.8	4
	17	Theta Xi	29	3.0	32
	18	Burton House	11	3.7	13
	19	Alpha Tau Omega	15	3.4	27
	20	Phi Delta Theta	22	3.4	25 (tie)
	21	Baker House	13	3.5	22
3.6	22	Kappa Sigma	12	3.7	9
	23	Phi Beta Epsilon	28	3.2	29
	24	Theta Xi	30	3.5	20
	25	Phi Kappa Sigma	34	3.3	18
	26	Delta Tau Delta	25	3.3	28
	27	Sigma Alpha Epsilon	27	3.5	21
	28	Tau Epsilon Phi	33	3.5	19
	29	Delta Psi	23	2.9	34
	30	Sigma Phi Epsilon	16	3.6	16
3.5	31	Phi Kappa Theta	20	3.4	26
	32	Delta Upsilon	32	2.9	35
	33	Phi Mu Delta	35	3.7	11
	34	Theta Delta Chi	18	4.0	1
	35	Phi Gamma Delta	21	3.0	33

How to use the Institute's Dormitory Telephone System

By Lyall Morrill

Automatic dial equipment was installed during the summer to serve the telephones in East Campus and Senior House. Using the Dormitory Telephone System, any dormitory resident may now place a call to any other resident without the assistance of an operator.

The System serves every room in Burton House, Baker House, McCormick Hall, Graduate House, East Campus, and Senior House. Also served are several student activities, the Electrical Engineering Department, and the offices of a few Institute officials.

For the convenience of our readers, The Tech presents this comprehensive guide to the use of the Dormitory Telephone System. We extend our thanks to John E. McNamara, of the System staff, for his extensive help in the compilation of this directory.

Three exchanges

Every telephone in the Dormitory Telephone System requires its own pair of wires connectig to the dial equipment. Therefore, a central exchange serving the entire system would be prohibitively expensive. Also, such an exchange is unnecessary, since many calls are made between rooms within a single dormitory.

Therefore, the Dormitory System includes three exchanges, located in Baker House, Graduate House, and Walker Memorial.

The Baker exchange serves all telephones in Baker House.

The Grad House exchange serves Graduate House, Burton House, and McCormick Hall, the new women's dormitory. It also serves phones in the Electrical Engineering Department and in the offices of Dean Frederick G. Fassett, Dean Kenneth R. Wadleigh, and William H. Carlisle, manager of student personnel.

The Walker exchange serves East Campus, Senior House, and the offices of a number of student activities.

The three exchanges are interconnected by trunk lines, so that calls can be dialed from any exchange to any other.

Telephone numbers

Every telephone number in the Dormitory System consists of four digits. The first digit is the exchange code. The last three digits are the local number.

For calls within a single exchange, it is usually necessary to dial only the local number. However, when the first digit of the local number is itself an exchange code, all four digits must be dialed.

The exchange codes are 8 for the Baker exchange, 9 for the Grad House exchange, and 0 for the Walker exchange.

Thus, a Burton House resident calling a resident of Graduate House would not need to dial the exchange code — 9 — since both houses are on the Grad House exchange. However, an East campus resident dialing the number 0-810 in Senior House must dial the exchange code, 0. If he begins by dialing 8, he will be switched into the Baker House exchange, since 8 is the Baker exchange code.

To place a call in the Dormitory System, you must

- (1) Find the exchange code,
- (2) Dial the exchange code if necessary,
- (3) Find the local number, and
- (4) Dial the local number.

The following directory is designed as a convenient reference for determining the local number of the person you wish to call.

Baker House

Exchange code: 8
Local numbers:

Desk	8200
Faculty resident	450
Senior tutor	350
Linen room	277
Lounge	294

First floor: Add 150 to the room number to obtain the local number.

Second, third, fourth floors: The room number is the local number.

Fifth, sixth floors: Subtract 150 from the room number to obtain the local number.

Burton House

Exchange code: 9
Local numbers:

Desk	101
Superintendent	105
Housemaster	109
Dining hall	159
Electronic shop	125
Hobby shop	135
Library	138
Linen room	107
420 Lounge	124
Photography shop	953
Snack bar	153

Each local number depends on the second digit of the room number and on the letter at the end of the room number, according to this table:

Second digit 1, 2			3, 4, 5
Letter A	Add 5		Add 30
Letter B	Add 0		Add 0
Letter C	Add 67		Add 34
Letter D	Add 48		Add 35
No letter	Add 0		Add 0

For example, the local number for Room 352C is found by adding 34 to 352 to obtain 386, the local number.

East Campus

Exchange code: 0
Local numbers:

Desk	711
Superintendent	710
Linen room	709

Each number depends on the house in which the room is located according to this table:

Munroe	Add 0
Hayden	Add 15
Wood	Add 30
Walcott	Add 45
Bemis	Add 60
Goodale	Add 75

For example, the local number of Walcott 104 is 149.

Graduate House

Exchange code: 9
Local numbers:

Desk	191
Superintendent	195
Housemaster	780
Buttery	711
Dark room	779
Fabian Lounge	712
Linen room	196

The local number of each room depends on the last two digits of the room number and the letter at the end of the room number. For all rooms except those whose numbers end in C, add the last two digits of the room number to the appropriate number in this table:

	No letter	A	B
First floor	700	700	900
Second floor	730	730	930
Third floor	760	760	960
Fourth floor	800	800	000
Fifth floor	830	830	020
Sixth floor	860	860	060

The local numbers for room numbers ending in C are as follows:

103C	723	407C	827
104C	724	419C	891
106C	726	420C	830
115C	725	424C	828
204C	794	425C	813
205C	795	504C	894
207C	757	505C	895
219C	759	507C	857
220C	760	519C	859
224C	758	520C	860
225C	743	524C	858
304C	796	525C	843
305C	729	604C	896
307C	787	605C	829
324C	788	607C	887
325C	773	619C	889
404C	892	620C	890
405C	093	624C	888
		625C	873

McCormick Hall

Exchange code: 9
Local numbers:

Desk	151
Manager	150
Housemaster	262

Rooms 201-206	Local number is room number
301-309	
401-409	
501-509	

Rooms 310-316	Add 82 to room number
410-416	
510-516	

Room 317	is number 300
Room 417	is number 400
Room 517	is number 500

Rooms on sixth floor: Local numbers are given in this table:

601	247	610	474
602	248	611	475
603	249	612	476
604	274	613	272
605	275	614	285
606	276	615	287
607	447	616	485
608	448	617	487
609	449		

Rooms on seventh floor: Add 100 to local number for corresponding room on sixth floor.

Senior House

Exchange code: 0
Local numbers

Desk	759
Crafts Library	701
Linen room	706

Telephone numbers for the rooms in the six houses are given in the following tables:

Atkinson	101	191	301	391
	102	192	301A	390
	103	193	302	392
	104	194	303	393
	105	195		
	106	196		
	107	197		
	108	198	304	394
	109	199	304A	314
	110	200	304B	315
	111	190	305	395
	201	291	401	491
	201A	290	401A	490
	202	292	402	492
	203	293	403	493
	204	294	404	494
	204A	214	404A	414
	204B	215	404B	415
	205	295	405	495

Crafts	201	206	401	460
	301	801	402	500
	302	802		
	303	803		

Holman	101	151	301	396
	102	152	302	397
	103	153	303	398
	104	154	304	309
	105	160	401	496
	106	114	402	497
	107	115	403	498
	201	296	404	499
	202	297		
	203	298		
	204	299		

Nichols	101	811	301	837
	102	812	302	838
	103	813	303	839
	104	814	304	830
	105	815	401	847
	106	816	402	848
	107	817	403	849
	201	827	404	840
	204	820		

Runkle	101	101	401	841
	101A	112	402	842
	102	102	403	843
	103	103	404	844
	104	104	405	845
	105	105	406	846
	106	106	406A	806
	107	107	501	591
	108	108	502	592
	109	109	503	593
	110	110	503A	596
	111	111	504	594
	201	821	504A	597
	202	822	505	595
	203	823	601	530
	204	824	602	560
	205	825	603	590
	206	826	604	514
	206A	804	604A	598
	301	831	605	515
	302	832	605A	599
	303	833	401	400
	304	834	402	430
	305	835		
	306	836		
	306A	805		

Ware	201	230
	202	207
	301	300
	302	330
	303	360

Institute officials

Exchange code: 9
Local numbers:

William H. Carlisle, manager of student personnel	233
Frederick G. Fassett, dean of residence	141
Kenneth R. Wadleigh, dean of student affairs	143

Student activities

Exchange code: 0
Local numbers:

Lecture Series Committee	729
Tech Engineering News	722
Technique	724
Technology Catholic Club	725
The Tech	726
VooDoo	723
WTBS	731

Walker Memorial

Exchange code: 0
Local numbers:

Morss Hall	751
Pritchett Lounge	752

Emergency

Dial 100.

Computer art advanced

Unique language to be put to work by civil engineers

'Sketchpad' oscilloscope ties designer and machine

A new computer language and programming system for solving problems in the engineering of structures has been developed by researchers in the Department of Civil Engineering.

The system, called STRESS (Structural Engineering System Solver), was developed by a research team under the leadership of Dr. Steven J. Fennes, a visiting professor of civil engineering.

STRESS makes it possible for civil engineers to communicate with modern digital computers in the engineers' language, describing each structure as an original and unique problem. The system can be used to analyze and design a wide variety of structures.

Conventional uses of computers have been limited to repetitive situations involving a high degree of standardization. STRESS removes the restrictions and limitations of conventional computer use, allowing the engineer freedom and flexibility in expressing his ideas and solutions, coupling the imagination, experience, judgment, and intuition of the human with the speed and power of the machine.

Billions of dollars are spent each year on structures designed by civil engineers. The STRESS system will enhance the engineer's ability to produce the optimum solution to structural problems, with subsequent savings through more economical designs. In addition, it will make the design of unusual and complex structures more feasible, reducing the tendency to produce stereotyped and standard structural forms which have become so common.

An initial version of the STRESS system is now operational at MIT for the analysis of linear elastic framed structures. Work is proceeding on additional higher levels of development to extend the power and sophistication of the system.

Eventually, the concepts will be extended beyond analysis and design to the automation of information handling associated with detailing, estimating, fabrication, and construction of structures.

While the initial revisions are being implemented in professional practice, special attention is being given to the use of the system in the teaching of structural analysis and design to civil engineering students. Professor M.J. Holley, Head of the Structures Division of the Department of Civil Engineering, has announced that the STRESS system will be used by both undergraduate and graduate students during the next academic year.

Researchers at MIT are developing a Computer-Aided Design System which will be a sort of magic slate-and-pen set for engineers designing anything from an electrical circuit to a jet plane.

The researchers said the system will be the next important step forward in linking man and computer together into a fast, creative, drudgery-free design team.

The system will allow a design engineer to make freehand sketches with a light pen on the face of an oscilloscope hooked to a computer — in other words, to "talk" to a computer by means of drawings — and have the computer "understand" what the pictures mean, and handle the vast detail needed to arrive at a final and workable design.

By turning a console knob, the designer will be able to enlarge a small section of his sketch in order to draw in some tiny part, or, by turning the console knob in the other direction, he can reduce the image of his scope so that he views the overall design. The magnification is so great that if he needs to, a designer will be able to work on what will amount to a sheet of drawing paper one-third of a mile on each side, even though he looks at it only through an oscilloscope "window" less than a foot square.

Said one MIT researcher "On some far off day it may even be possible to call up last year's automobile on the oscilloscope, to wave the magic wand of the light pen, and in a very short time to create the modified version from the old. This will be, in a sense, a mechanization of experience."

The computer-aided design work is being carried out by the Department of Electrical Engineering's Electronic Systems Laboratory and the Engineering Design Division of the Department of Mechanical Engineering.

Another important development is the SKETCHPAD computer-oscilloscope-light pen system. Developed at MIT by Dr. Ivan Sutherland and Timothy Johnson, SKETCHPAD programs are written for Lincoln Lab's TX-2 computer. Using SKETCHPAD, it is possible for an operator to perform operations in geometry and computation.

For instance, the operator can draw an approximately vertical

or horizontal straight line on the oscilloscope and command the computer to make them perfectly vertical or horizontal. Instantly, the desired figures appear on the screen. Similarly rough sketching motions of the light pen are translated into precise figures, with circles passing intersections exactly, etc.

Using these figures, the operator can then draw ever more complicated structures and figures. In effect, the operator communicates with the computer and gains access to its enormous powers of computation and memory through a sign language of line drawings.

Moreover, the computer is able to respond and reply to the operator in the same graphical language.

But this is only a small part of SKETCHPAD capabilities. The SKETCHPAD program also enables the operator to draw mechanical structures — for example, a bridge — and see the stresses and distortion caused in the structure by any given loading.

With SKETCHPAD, figures can also be made to move. This means the operator can draw several articulated parts of a mechanical system and move them back and forth to see how they will mesh.

The three-dimensional capability gives the system even greater utility. For one thing, the operator can draw a geometrical figure from one viewpoint, then turn it to see what it looks like from another angle. It is possible to turn a figure completely around and view it from the rear.

Johnson reported that applying three-dimensional SKETCHPAD, he has been able to design a lawn chair made from tubular material, and to modify the shape at will until all proportions were aesthetically pleasing, as viewed from all angles.

Library tours slated for Sept. 30, Oct. 1-2

Tours and instruction in the use of MIT's library facilities will be conducted September 30 and October 1, at noon, and October 2, at 5:00 pm. Tours, beginning on the second floor of Building 14, will be given primarily for freshmen but are open to other members of the MIT community.

Cherchez la Femme

Girls are back & ready to mix

By Dave Trevvett

Most of the schools in the area began classes this week, so there'll be an abundant supply of mixers in the near future. Here's the latest listing:

Friday, Sept. 27

All - Tech Acquaintance Dance, sponsored by Tech Catholic Club; 8-12 pm in Walker Memorial; music by George Graham's orchestra; entertainment by MIT Logarithms; \$1.25 for men, women free.

Emmanuel, 8-12 pm, Marian Hall, for all classes, no charge for men.

Mass. General, School of Nursing; 20 Charles St., 8-12 pm, \$50 admission; free refreshments.

Lasell Jr. College, Auburndale, Windsor Hall; starts at 8 p.m.; \$50 admission.

Law Students Association of Greater Boston, 8-12 pm, Hotel Continental in Cambridge; Autumn Harvest Mixer, for benefit of scholarship fund.

Saturday, Sept. 28

Baker House, 8-12 pm, dining hall; \$1.00 admission.

Burton House, 8-12 pm, dining hall; live music, free refreshments; \$1.00 admission.

Northrop House, Smith College, Northampton; 8 pm-1 am; admission not known.

Collegiate Club, Park St. Church, mixer-picnic; bus leaves front of Kresge, 12:45 pm, returns by 10 pm; at Silver Lake State Park, N.H.; football, baseball, soccer, volleyball, etc.; food; musical instruments invited; \$1.00 per person; includes Radcliffe, Simmons, Wellesley, Tufts, Jackson, Harvard; all Boston area Christians invited.

Sunday, Sept. 29

MIT HILLEL, mixer, 2-5 pm in Baker House dining hall; members and girls, free; non-members, \$1.00.

October 4 there'll be mixers at Bouve Boston School (Tufts), Lesley, Fisher Jr. College, and Mt. Auburn Hospital School of Nursing. The next day will see the car wash and party mentioned last week at The Towers, BU. The two weeks after that will feature at least the following mixers: BU's new dormitory on Babcock St.; Marlboro, BU; another mixer at The Towers; Catherine Laboure School of Nursing; and another social at Emmanuel. Details will be printed in the issues to come.

An here are two more new BU phone numbers:

Babcock St. dorm., 783-1000
162 Bay State Rd., 247-9755.

Foreign opportunities for students discussed at Tuesday meeting, 5 pm in Kresge Little Theatre

Opportunities for students to study or work abroad will be the subject of a meeting Tuesday, October 2, at 5 pm, in the Kresge Little Theatre. The Fulbright and Rhodes programs will be described, and other fellowship possibilities will be enumerated. Professor B. Allen Thresher, Fulbright program adviser at MIT,

will be a participant in the panel.

Mr. Thomas Harrington, Jr., placement officer at the Institute, will describe the international work programs now available. Mr. Harrington has collected information on these programs over the summer, and will report his findings to the audience.

TCA high-school summer program attracts 900 for non-credit courses

Approximately 900 high-school students participated this year in the Technology Community Association's summer school.

Coming from over 70 high schools, some as far away as Haverhill, the students took 22 courses taught by 38 MIT students.

The classes, which included organic and physical chemistry, computer programming, linguistics, atomic physics, and symbolic logic, as well as calculus and freshman chemistry and physics, were entirely free of charge. The teachers, all students at MIT, worked without pay. The only costs to participating students were transportation and, in some cases, textbooks.

This is the seventh summer that TCA has sponsored these courses. In the first year only four courses were offered to a small group of students. This year one section of a class in psychology contained 175 people.

Director of the program was Elliot Bird '63, now an instructor at the University of Massachusetts. He had been involved with the program since its inception, when, as a student at Boston Latin, he took one of the first courses in the program.

Each year 70 Boston-area high schools are contacted and asked to name interested and qualified students for the program. The 35 high schools responding this year named approximately 600 students, two-thirds of the number who eventually took the courses.

No MIT credit is given for the courses, but many of those who take them later receive advanced standing upon entering college.



Elliot Bird '63, director of the TCA summer program, shows a group of high school students how to operate a computer.

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The Sussman study of freshman morale

In 1959, sociologist Leila Sussman finished her study on **Freshman Morale at MIT**. Commissioned by the Institute, the report was based on research about the class of '61. There were a large number of interviews and several questionnaires. Four freshmen kept detailed diaries of their experiences.

The Sussman report reached these conclusions:

MIT is a performance-oriented school. For both freshmen and their instructors, grades are the main measurement of performance. Grades are the most important single factor affecting freshman morale. Students with low grades have lower morale and study less.

The grades-morale-grades syndrome seems to be a modern-day version of the Biblical admonition: The destruction of the poor is their poverty. For whosoever hath, to him shall be given; but whosoever hath not, from him shall be taken away even that he hath.

Peer groups are weak. Lack of school spirit, and a very competitive system which often pits student against student, tends to make each freshman an island. Because student groups rarely value something else over academic success, students with low grades find their problems aggravated.

Many freshmen who come to MIT are hoping for a typical "collegiate" experience—community, college spirit, and social life—and they are most often disappointed. Their morale was lower than those here strictly to get a professional education.

Freshmen must choose study or group life. Dormitories often force a choice between social isolation and poor conditions. Less true today than it was in 1959, for

many students living conditions in the dorms are damaging to morale.

The forced choice between study and other activities is particularly oppressive because of the intense time pressure.

The freshman trying to get high grades often spends time in bull sessions, bridge games, and other recreation. But he realizes that his present fun comes at the expense of his grades at the end of the term.

Faculty-student relations are weak. According to the report, nearly all students insisted that the faculty was helpful and concerned if the student took the initiative in approaching them. However, some students who wanted more interchange with professors never went to see the faculty, and few saw them often.

Since values are usually learned from respected models, and students hold the intellectual competence of the faculty in very high regard, closer relations between the two would set the tone of the community life MIT hopes to attain.

However, the Sussman report acknowledged that the demands on the faculty to do research must conflict somewhat with the Institute's educational goals.

MIT was discerning in calling in Dr. Sussman to make her perceptive report. But just as the Institute is performance-oriented with respect to its students, so it must be with itself. To MIT, the primary value of the report is only the improvement it has inspired.

This is the first section of a two-part editorial on the Sussman Report and freshman morale. The second section—an evaluation of what action has been taken on the report's recommendations—will appear next week.

Rooms needed—prestissimo

In all of MIT, there are only four piano practice rooms—one each in Baker House, Burton House, Graduate House, and Walker Memorial.

The new Women's Dormitory has a piano in its lobby, but has no private practice room. Senior House has a music room—but no piano. East Campus's sole

piano is located in the usually rambunctious Talbot Lounge.

These facilities are very inadequate, as music is one of the most popular activities at MIT. Music subjects offered by the humanities department draw increasing number of students. Also, music has a wide following on campus as a leisure-time pursuit—the success of the musical clubs and of the humanities series in music testifies to this.

Even though the new student center will contain several music practice rooms, for most students the center is remote in both time and distance. Other piano practice rooms around campus are needed now.



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PEANUTS appears daily and Sunday in the Boston Herald.

Inside Incomm

Parents' Weekend heads list of upcoming Incomm projects

by Jerry Luebbers, UAP

Having settled academic scheduling problems last Monday, I'd like to take a look at some of Incomm's considerations for the coming year. A number of projects are rather tentatively set for the year, and their successful completion, while a monumental task, is much to be desired.

(1) As has been customary for a number of years, Parents' Weekend and Open House are held in alternate years. This year, Parents' Weekend is due and will be held next spring under the leadership of Bob Blumberg.

(2) The Junior Science Symposium will be held again this year. The event, jointly sponsored by the United States Army Research Office and the IBM Corporation, was a tremendous success last year, and precedent has been broken in asking us to handle the program for a second consecutive year.

(3) Tentative plans have been made to assemble representatives from all of the Boston area schools in order to explore the potential of inter-school co-operation. Joint publicity and academic or social events are naturally to be a first consideration.

(4) Technology Student Enterprises is gaining its legal foot-

hold quite rapidly and promises to be a real challenge with high rewards. Roughly similar to the Harvard Student Agency, T S E is the outgrowth of the entrepreneurs study made over the past several years. T S E will be discussed at greater length in the coming months.

(5) Foreign opportunities are proceeding well. Mr. Harrington plans to offer greatly expanded services regarding opportunities for foreign work and study experiences via the Placement Office. In addition, we have people back from several foreign programs conducted last summer, and they are eager to relay their findings to others. An explanatory meeting similar to the one held last spring is scheduled for October 2.

In addition to these five specific topics, we will, of course, be handling others. SCEP has several new programs underway, and the Freshman coordinating Committee has just completed a well-received orientation week.

I would like to emphasize the importance of your making known any interest you may have in assisting in the projects undertaken by Student government. After all, they are your projects.

Kibitzer

By ALAN RINSKY

Editor's note: In the absence of our regular columnist, Michael Linab, this week's bridge column is written by Alan Rinsky. The solution to the puzzle presented last week will appear in next week's Kibitzer.

North
♠ K 10 4 2
♥ Q 7 6
♦ A K 4
♣ A 5 2

West
♠ J 8 7 5
♥ 5 3 2
♦ Q J 10
♣ J 4 3

East
♠ none
♥ K J 10 4
♦ 9 7 6 5 3 2
♣ K 7 6

South
♠ A Q 9 6 3
♥ A 9 8
♦ 8
♣ Q 10 9 8

The Bidding:
West North East South
Pass 1 N.T. Pass 3 ♠
Pass 4 ♠ ALL PASS

West led the queen of diamonds.

On looking only at the North and South hands, the four spades contract appears cold, with two possible club losers and one heart loser evident. However, faulty play by declarer could result in losing the contract, whereas, correct play will make an overtrick.

The bidding is standard, with North opening 1 no trump with 16 points and no trump distribution. South responded 3 spades, asking North to go to game in no trump or spades. With good four card trump support, north bid 4 spades.

After winning the opening diamond lead with dummy's ace, declarer led a low spade from dummy and took the trick with the Ace, East discarding a diamond. This was the correct play by declarer since it gave him the opportunity to finesse for the Jack in either defensive hand if they broke four-nothing. The play of the king of spades in this hand would have cost declarer a trump trick.

Declarer led his spade Three and finessed dummy's Ten when West played low. East discarded a diamond. North's King of spades took the third trump trick and the Queen took the fourth, leaving declarer in his hand.

At this point, declarer must decide how to play the clubs. One way is to win the first club trick with the ace, lead dummy's Two and decide whether to play the Ten or Queen from his hand, assuming that East plays low. Whichever card he decides to play is based on a guess, and if he guesses wrong, he will lose two club tricks.

Declarer decided to eliminate the guess by finessing twice toward the Ace. This holds the club losses to one trick if the King and Jack are both in the West hand or if they are in separate hands. It only loses if both honors are in East's hand.

South led the club Queen from his hand and let it ride to East, who beat it with his King. East led a diamond and declarer won it with dummy's King after discarding the Eight of hearts from his hand. He got back into his hand with the heart Ace and led the club Ten which West covered with his Jack. Dummy's Ace won the trick and the contract was made with an overtrick, losing only a club trick and a heart trick.

PROBLEM

North
♠ A 10 7 3 2
South
♠ K 9 5 4

You cannot afford to lose more than one trick in the spade suit. How should you play it?

ANSWER

Lead the Queen and Jack. King and finesse West twice for the lead of the deuce, take the Ace and King. If East had shown out after rest of the suit after pulling the three-ones and you can run the spades split no worse than queen or Jack, this tells you that West wins this trick with the deuce to one trick. However, if your spades, this will hold your South hand. If East started with the Nine from the North hand and if East from the North hand, lead the deuce for example, lead the deuce from either hand. To guard against this, lead low lead to losing two spade tricks. Only a four-nothing split can

THE DEAN YOU SAVE MAY BE YOUR OWN

Colleges are complicated and bewildering places, filled with complicated and bewildering people. Today let us examine one of the most complicated and bewildering—yet fetching and lovable—of all campus figures. I refer, of course, to the dean of students.

Policeman and confessor, shepherd and seer, warden and oracle, proconsul and pal—the dean of students is all of these. How, then, can we understand him? Well sir, perhaps the best way is to take an average day in the life of an average dean. Here, for example, is what happened last Thursday to Dean Kiljoy N. Damper of the Duluth College of Belles Lettres and Pemmican.

At 6 a.m. he woke, dressed, lit a Marlboro, and went up on the roof of his house to remove the statue of the Founder which had been placed there during the night by high-spirited undergraduates.

At 7 a.m. he lit a Marlboro and walked briskly to the campus. (The Dean had not been driving his car since it had been placed on the roof of the girls dormitory by high-spirited undergraduates.)

At 7:45 a.m. he arrived on campus, lit a Marlboro and climbed the bell tower to remove his secretary who had been placed there during the night by high-spirited undergraduates.

At 8 a.m. he reached his office, lit a Marlboro, and met with E. Pluribus Ewbank, editor of the student newspaper. Young Ewbank had been writing a series of editorials urging the United States to annex Canada. When the editorials had evoked no response, he had taken matters into his own hands. Accompanied by his society editor and two proofreaders, he had gone over the border and conquered Manitoba. With great patience and several Marlboro Cigarettes, the Dean persuaded young Ewbank to give Manitoba back. Young Ewbank, however, insisted on keeping Winnipeg.

At 9 a.m. the Dean lit a Marlboro and met with Robert Penn Sigafos, president of the local Sigma Chi chapter, who came to report that the Deke house had been put on top of the Sigma Chi house during the night by high-spirited undergraduates.

At 10 a.m. the Dean lit a Marlboro and went to umpire an intramural softball game on the roof of the law school where the campus baseball diamond had been placed during the night by high-spirited undergraduates.

At 12 noon the Dean had a luncheon meeting with the prexy, the bursar, and the registrar, at the bottom of the campus swimming pool where the faculty dining room had been placed during the night by high-spirited undergraduates. Marlbors were passed after luncheon, but not lighted, owing to dampness.

At 2 p.m., back in his office, the Dean lit a Marlboro and received the Canadian Minister of War who said unless young Ewbank gave back Winnipeg, the Canadian army would march against the U.S. immediately. Young Ewbank was summoned and agreed to give back Winnipeg if he could have Moose Jaw. The Canadian Minister of War at first refused, but finally consented after young Ewbank placed him on the roof of the metallurgy building.

At 3 p.m. the Dean lit a Marlboro and met with a delegation from the student council who came to present him with a set of matched luggage in honor of his fifty years' service as dean of students. The Dean promptly packed the luggage with all his clothing and fled to Utica, New York, where he is now in the aluminum siding game.

The makers of Marlboro, who sponsor this column, don't claim that Marlboro is the dean of filter cigarettes—but it's sure at the head of the class. Settle back with a Marlboro and see what a lot you get to like!

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College World

Californian makes mint at college; Football league with MIT proposed

Do you find yourself short of money after paying your tuition? The Office of Student Personnel might suggest that you find a part-time job. The part-time job, in fact, is a solution to students' money shortage problem all over the country.

One 21-year-old Californian was put to work last year in the print shop of Alameda State College at a salary of \$2.25 an hour. It was July before the print shop was raided by federal Secret Service agents. The salary, it seems, was only a partial solution to the young man's money problems. The rest of the solution lay in the print shop's facilities.

According to a statement made by the president of Alameda State, the Californian "seemed like a nice young fellow and a hard worker. He did have a lot of overtime work, so we gave him a key to the place. He could come at any hour he chose."

Yes, he was a hard worker. Shortly after his arrest, Secret Service men had already recovered some \$2,400,000 in counterfeit \$20 and \$50 bills. The energetic captive admitted to running off over \$4,000,000 in phony bills. The case is reported to be the largest ever handled involving counterfeit money in the 98-year existence of the Secret Service.

A Mighty 1.5 Miles
The operation of a printing press is business common to many universities throughout the United States. Few, however, can share Michigan State University's claim. MSU runs a railroad.

The tracks run from a Chesapeake and Ohio connection to the North Campus Power Plant. Total mileage is 1.5 miles with an additional ¾ mile of siding.

Equipment owned by the university is presently limited to one diesel electric locomotive, previously used for five years at the Charnute Air Force Base in Illinois, and two cranes and a 60-ton hopper car. MSU purchased

Language Dept. has course in Chinese

The Modern Languages Department is offering a beginning course in the Chinese language this term. Professor Carey will teach the course, which is to be listed under 23.71, "Special Problems in Language and Literature," 3-0-5. Hours are yet to be arranged. Interested students should see the Modern Languages office, Room 14N-307.

\$84,300 set as goal for United Fund drive

The goal for this year's United Fund drive at MIT will be \$84,300, an increase of 11 percent over last year's collection. Administrators of the campaign are confident that this goal will be reached in light of the successful record MIT has of meeting goals over the past few years.

The drive, which begins October 15 and lasts for three weeks, will be directed by Professor John T. Rule of the Mechanical Engineering Department. Campaign headquarters will be located in Room 7-103, the summer session office.

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the engine as government surplus for \$100,000.

Despite the limited length and equipment, the MSU railroad does a thriving business. The single locomotive each year switches nearly 2,000 freight cars. Its 300 horsepower is capable of pulling as many as 25 loaded hopper cars on level straight track at one time.

The amount of freight handled last year totalled 99,741 tons. This was principally coal for the power station and frozen food. Passengers are carried on the line during the football season. Special trains last year had as many as eighteen cars.

Football In Chicago
The University of Chicago may not have the same railroad facilities as MSU, but its football

enthusiasm is running high. Chicago dropped varsity football from its sports program in 1939. Now, if enough students volunteer for the team, intercollegiate football will be revived.

UC President George W. Beadle said he would have no objection to students playing on a football team. "My view," said Dean of Students Warner A. Wick, "is that we should recognize activities if they spontaneously occur. Athletic Director "Wally" Hass expressed a desire to see football return to Chicago and to see a full schedule, provided that football does not interfere with the academic program. All three have stressed the University's determination to prevent football from becoming a "big-time sport."

This year the "team," which numbers about 45, will scrimmage with at least three colleges in the area. The coach is Sidney Stein, last year line coach at the University of Bridgeport.

One of the ideas Stein is reportedly thinking about involves the establishment of a league with Caltech and MIT. As far as can be determined, however, MIT's Athletic Department has not yet been approached about the idea.

In 1955, an attempt was made to bring back intercollegiate football to Chicago. A faculty committee, its membership including Dean of Students Warner Wicks, was set up to study the situation.

The committee unanimously recommended in its report that football be returned to the university on a non-conference, "free-lance" basis. The governing body of the university, however, rejected the proposal at that time.

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movies ...

'The Haunting' grade-C horror movie

By David F. Nolan

Thirty seconds after the start of *The Haunting* one has the distinct feeling that one is about to see a very bad movie. Within ten minutes, this feeling has been confirmed only to well. Based on a novel by Shirley Jackson, a writer whose fame rests primarily on a short story called *The Lottery*, Metro-Goldwyn-Mayer's latest gem bears all the earmarks of a grade-C horror movie.

A black-and-white epic of a supposedly scientific investigation into the supernatural phenomena associated with a ninety-year-old architectural monstrosity called Hill House, the film relies excessively on "gimmick" shots and weird camera angles to show the psychological effects of these phenomena on the four members of the investigating group, dealing particularly with one Eleanor Vance, a timid and lonely woman who is at least half crazy to begin with. At the beginning of the movie, there is a narrated sequence explaining that Hill House is an evil place, complete with evil-looking shots of the building and its former inhabitants, including Hugh Crain, who designed the building so that it contained no orthogonal lines, and his daughter Abigail, who ages before your very eyes, and dies as an old woman.

After the introduction, we meet Dr. John Montague, head of the ghost-chasing expedition, and his three aides. These are the aforementioned Eleanor, a bizzare girl identified only as "Theodora," and Luke Sanderson, a wise-crack-

THE HAUNTING; produced and directed by Robert Wise; starring Julie Harris as Eleanor, Claire Bloom as Theodora, Richard Johnson as Dr. Montague, Russ Tamblyn as Luke Sanderson; at Loew's Orpheum.

ling college student whose aunt happens to be the current owner of Hill House. Dr. Montague is concerned primarily with catching the Hill House beastie that goes boom in the night, while Eleanor is interested primarily in Dr. Montague. Theodora is interested mostly in herself. Luke thinks the whole business is a farce, and is interested only in how much money he can get for Hill House when he inherits the place.

As this jolly quartet proceeds on their merry way, we are treated to such brilliant dialogue as "That's Theo in the velvet, so I must be Eleanor in the tweed," and "I really must spend my vacation somewhere else next year." We also get to see Theodora peel and eat a raw potato during dinner, for some unexplained reason.

Three-quarters of the way through, you are sure that *The Haunting* is trying very hard to say something, but is not coming through very clearly. Eleanor is definitely on the mental skids, and Theo seems more than likely to be a Lesbian. To complicate things further, Dr. Montague's wife shows up, and then disappears. From here on, anything goes, and the movie ends in a blaze of cliches and stale gimmicks. A shot of someone's bare feet running up stairs is less than inspiring at best,

and when rotated ninety degrees loses whatever meaning it once had.

The acting is fair, but nothing to rave about. Julie Harris does a good job as the beleaguered Eleanor, but cannot quite overcome the handicap of having to play a totally unbelievable character. Claire Bloom's major addition to the film is her looks. Her portrayal of Theodora is neither powerful nor consistent. Richard Johnson is too busy trying to look like Clark Gable to do much of anything else; no reputable college in the country would hire Dr. Montague as Johnson presents him. Russ Tamblyn as Luke is overdone, but still credible, and provides momentary relief from the otherwise dismal monotony of a generally third-rate picture.

Director-producer Robert Wise is definitely slipping if this is the best he has to offer as a follow-up to *West Side Story*, and should definitely not count on getting another Oscar. This is the kind of movie people should stay away from in droves. Don't fail to miss it.

Making the Scene

THIS WEEK

MUSIC
The Handel and Haydn Society—Jordan Organ Concerto No. 3 and Sonata, Sept. 28, 8:00; Sept. 29, 3:00; Sept. 30, 8:00; Sept. 31, 3:00; Sept. 1, 8:00; Sept. 2, 3:00; Sept. 3, 8:00; Sept. 4, 3:00; Sept. 5, 8:00; Sept. 6, 3:00; Sept. 7, 8:00; Sept. 8, 3:00; Sept. 9, 8:00; Sept. 10, 3:00; Sept. 11, 8:00; Sept. 12, 3:00; Sept. 13, 8:00; Sept. 14, 3:00; Sept. 15, 8:00; Sept. 16, 3:00; Sept. 17, 8:00; Sept. 18, 3:00; Sept. 19, 8:00; Sept. 20, 3:00; Sept. 21, 8:00; Sept. 22, 3:00; Sept. 23, 8:00; Sept. 24, 3:00; Sept. 25, 8:00; Sept. 26, 3:00; Sept. 27, 8:00; Sept. 28, 3:00; Sept. 29, 8:00; Sept. 30, 3:00; Sept. 31, 8:00.

THEATRE
LSC Contemporary Series—'Stalag 17,' Sept. 27, Room 10-250, 8:00, 9:00; \$6.00.
LSC Entertainment Series—'The Music Man,' Sept. 28, 6:00, 9:00, Kresge Auditorium; \$3.50.

LECTURES
Boston College Humanities Series—Hans J. Morgenthau, 'The Crisis in our Alliances,' Library Auditorium, Sept. 25, 8:00.

S	M	T	W	T	F	S
29	30	1	2	3	4	5
6	7	8				

Ford Hall Forum—Robert St. John, 'Everchanging Africa,' Jordan Hall, Sept. 28, 8:00.
'What's Eating Modern Theologians?'—Rev. L. William Yelton, 'Karl Barth's Theology of Man's Humanity,' Sept. 29, Old South Church, 3:30.
Patterns of Contemporary American Thought—Russell E. Miller, Professor of Religion, Tufts University, 'Is the Ideal American Character American After All?' Boston Center for Adult Education, Sept. 30, 8:00.
'The Great Seafaring Peoples'—Robert Alblon, 'Greece and Italy,' Morse Auditorium, Lowell Institute, 5:00, Oct. 1, free.

NEXT WEEK
MUSIC
Dancers and Musicians of South India—Leob Drago, Oct. 4-5, 8:30; \$2.30, \$2.00.
Stars of the Bolshoi Ballet—Oct. 4-5, Donnelly Memorial; \$2.50, Oct. 4-5, \$4.00, \$5.00, \$6.00.
Odette—Oct. 5, Kresge Auditorium, 8:30; \$3.00, \$2.50, \$2.00 in lobby of Bldg. 10.
Bach Program—Sanders Theatre, Oct. 5, Festival Orchestra of New York and New York Chamber Soloists, 8:30; Suite No. 1, Brandenburg Concerto No. 5, Cantata 55 'Ich armer Mensch.'

Festival Winds of New York City—Oct. 6, Jewett Auditorium, Wellesley College, 8:00.
Royal Philharmonic Orchestra of London—Symphony Hall, 8:00, Oct. 6; \$3.50, \$4.50, \$5.50, \$6.50, \$8.50.
Pepino di Capri—Donnelly Memorial, Oct. 6, 3:00.

LECTURES
John Ciardi—Room 26-100, Oct. 3, 8:00.
Boston College Humanities Series—T.H. White, 'The Pleasures of Learning,' Oct. 3, Library Auditorium, 8:00.
Canterbury Lectures—'Robinson: Honest to God,' Theodore Ferris, Trinity Church, Oct. 6, 8:00; free.
'What's eating Modern Theologians?'—Dr. L. Harold DeWolf, 'Jesus, the Norm of Life,' Oct. 6, Old South Church.

Malcolm X—Ford Hall Forum, Oct. 6, 8:00; 'God's Solution to America's Race Problem,' 8:00, Jordan Hall.
Patterns of Contemporary American Thought—John Spicer, 'The Continent I Self—How it has Shaped the Character of Americans,' Boston Center for Adult Education, Oct. 7, 8:00.
'The Great Seafaring Peoples'—Robert Alblon, 'Scandinavia,' Morse Auditorium, Lowell Institute, 5:00, Oct. 8, free.

MISCELLANEOUS
Mark Twain Tonight—Hal Holbrook, Kresge Audit., Oct. 3, 9:30; \$2.50, \$3.00.
Arts of India—Museum of Fine Arts, starting Oct. 3; hours: Tuesday 10-10, Wednesday-Saturday 10-5, Sunday 1:30-5:30.

Movie Schedule

ASTOR—'Wives and Lovers,' 9:45, 11:45, 1:45, 3:45, 5:45, 7:45, 9:45.
BEACON HILL—'Lawrence of Arabia,' 9:30, 1:05, 4:40, 8:10.
BOSTON CINERAMA—'How the West Was Won,' 8:30; matinee Wednesday, Saturday 2:00, Sunday 1:00, 4:45.
BRATTLE—'Fellini's "Il Bidone" ("The Swindle)," 5:30, 7:30, 9:30, mat. Sat. at 3:30. Starting Sun.: Jean Renoir's "The Elusive Corporal," 3:30, 5:30, 7:30, 9:30; weekdays 5:30, 7:30, 9:30.
CAPRI—'The L-Shaped Room,' 10:30, 12:35, 2:45, 7:10, 9:25.
CINEMA—'Lord of the Flies,' 2:20, 4:15, 6:07, 8:00, 10:00.
EXETER—'Murder at the Gallop,' 2:20, 4:10, 6:00, 7:45, 9:35.
FINE ARTS—'A Summer to Remember,' 5:30, 8:45; 'Ballad of a Soldier,' 7:00, 10:00.
GARY—'Condemned of Altona,' 10:00, 12:00, 2:00, 4:00, 6:00, 8:00, 10:30.
HARVARD SQUARE—'Bye Bye Birdie,' 1:45, 5:25, 9:10; 'Man from the Diner's Club,' 3:45 and 7:30. Starting Sun.: Garbo in 'Queen Christina,' Marie Dressler in 'Min and Bill.'
KIETH MEMORIAL—'Love of Mo'ney,' 11:15, 2:50, 6:20, 9:55; 'A French Mistress,' 9:30, 1:00, 4:35, 8:10.
LOEW'S ORPHEUM—today, 'The Haunting,' 1:20, 3:10, 5:00; 'Dime With a Halo,' 3:10, 7:00; starting tomorrow, 'The V.I.P.'s' 9:30, 11:35, 1:40, 3:45, 5:50, 7:55, 10:00; Sunday, 1:00, 3:05, 5:15, 7:35, 9:35.
LSC—'Stalag 17,' Sept. 27, 6:00, 9:00; Room 10-250; 'The Music Man,' Sept. 28, Kresge, 6:00, 9:00.
MAYFLOWER—'Three Stooges Go Around the World in a Daze,' 11:25, 2:40, 5:50, 9:10; 'Sage of the Saxon,' 10:00, 1:10, 4:30, 7:45.
MUSIC HALL—'Cleopatra,' 2:00, 8:00.
PARAMOUNT—'Shock Corridor,' 9:20, 12:25, 3:25, 6:30, 9:35; 'Play It Cool,' 11:05, 2:05, 5:10, 8:10.
PARK SQ. CINEMA—'8½,' no times available.
SAXON—'Irma La Douce,' 11:30, 2:00, 4:30, 7:00, 9:30.
WELLESLEY COMMUNITY PLAYHOUSE—'The Thrill of It All,' 'The Traitors,' evenings 7:45, matinee Wednesday, Saturday, 2:00.

Theatre Schedule

CHARLES—'The Hostage,' starting Oct. 2, evenings, 8:30.
COLONIAL—'The Girl Who Came to Supper,' starting Sept. 30, opening night, 8:00, evenings 8:30.
SHUBERT—'110 in the Shade,' 8:30, matinee Saturday 2:30, Thursday, 2:15.
WILBUR—'The Private Ear—The Public Eye,' 8:30.

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Phone Reservations: UN 4-6900, Ext. 2910

Sunken ship relocated with sonar system developed at MIT by Dr. Harold E. Edgerton

The wreck of the Vineyard Lightship, which was sunk in Buzzards Bay in a 1944 hurricane, has been relocated with the help of a new type of sonar system by Dr. Harold E. Edgerton of the Massachusetts Institute of Technology.

Divers from Fairhaven, Mass., descended to the wreck Sunday. The wreck lies in seventy feet of water seventeen miles south of New Bedford, and brought up the ship's bell, weighing nearly a ton, and compass.

For many years divers had been trying to find the wreck. Early in September, Professor Edgerton tried out a "side-looking sonar pinger" which he developed. With the help of Edward P. Curley, Boston engineer who built the recording equipment, and John A. Yules, an MIT graduate student from Mt. Vernon, N. Y., he located the 112-foot hull.

The sonar sends out high-energy, short-duration sound pulses which echo sharply from submerged ob-

jects. Rather than being directed downward, at a right angle to the ocean bottom, the pulses are beamed in a slanting direction — in this case at a range of 1,200 feet. Echoes were plotted automatically on a chart, so as to be easily visible. The wreck was scanned from along four sides of an area, and a record of it, as "seen" from each side, was established. The side scan system covers a much larger area than the conventional vertical sonar.

The final, successful sonar survey was made on the U.S. Coast and Geodetic Survey ships ASV 83 (Wainwright) and ASV 82 (Hilgard), with Lt. Cmdr. Edwin K. McCaffrey and Lt. James S. Midgley in command.

Luther and six other members of the Fairhaven Whalers spent ten man-hours on the bottom in their salvage operation.

A dive to identify the wreck was then made by Bradford Luther, Jr., a Fairhaven fireman who is president of the Fairhaven Whalers Skin Diving Club.

Dante translator

John Ciardi to lecture here

John Ciardi, one of America's foremost poets, will lecture October 3 at 8:00 pm in Room 26-100, under the sponsorship of the Lecture Series Committee.

His translations of Dante's *Inferno* and *Purgatorio* are used in 21.02. He is presently working on his translation of the *Paradiso*. In these translations, Ciardi retains Dante's style of rhymed triplets a feat most former translators have abandoned.

Mr. Ciardi has served seven years as Poetry Editor of the *Saturday Review* and was recently the host of the television program 'Accent.'

His other books include 'How Does a Poem Mean,' which is used as a college introductory text to the study of poetry, and several children's books.

Boston bred, Ciardi received his B.A. from Tufts University in 1938. His M.A. was granted by the University of Michigan. At Harvard, he began as an in-

structor in English and was made a Briggs Copeland assistant professor of English.

In 1953 he went from Harvard to Rutgers to become Professor of English, resigning in 1961 to become a free lance writer and lecturer.

This year he will serve as a visiting professor and poet in residence at Tufts.



John Ciardi

RLE scientists develop pocket-size amplifier

A versatile pocket-size electronic device that can replace a full-sized hi-fi amplifier or a transformer has been developed at the MIT Research Laboratory of Electronics.

Electronically the device is unusual because its simple transistor circuit handles an incoming signal in an entirely different way than conventional equipment making possible very high efficiency, little heat, and light weight.

Fundamental to the amplifier's operation is the conversion of an undulating input signal (of varying amplitude and frequency) to a rectangular output signal, made up of rectangles of fixed height with varying width. The output signal is a voltage which switches back and forth between two fixed values, depending on variations in the input signal.

Because the system is more efficient, its power requirement is very low and the problem of cooling an amplifier to dissipate the heat generated by inefficient operation has been largely eliminated.

movies...

'Il Bidone,' tragi-comedy of a swindler

By Gilberto Perez-Guillermo

Fellini's "Il Bidone" belongs in a class with the director's best films, exhibiting the intensity of feeling which is Fellini's chief virtue. In "Il Bidone," as in "Vitelloni," "La Strada," and "Cabiria," we are presented with a tragic-comic view of society, with strong sentiment often bordering on sentimentality, with characters which earn our sympathy in spite of their actions, with an optimism which emerges against the saddest happenings. After these four films, Fellini has become more pretentious, developing a more sophisticated visual style. Even if we find several sequences in "La Dolce Vita" and "Eight and a Half" which have the intensity of feeling of the early Fellini, these films try to transcend this simple sentiment; and, I think, both fail in this attempt. "Il Bidone" is more successful in a smaller scale, reminding us at times of "Vitelloni," which is still Fellini's best film.

"Il Bidone" is the portrait of a swindler. The central character, Augusto (Broderick Crawford) has reached his late middle age without much success in his "profession," and makes his living on small-scale jobs, the victims of which are mostly poor people. Augusto is an unusually complex character for Fellini, torn between his pride as a swindler and the compassion he feels for his victims. In spite of Augusto's weaknesses and of his cruel, low actions, Fellini lets us into his better side, and we feel a compassion for the swindler for his inability to let his better instincts guide his behavior. This creates a conflict in the spectator's mind, the climax of which is reached when Augusto is justly imprisoned in the presence of his daughter. Fellini points to the relativity of values in this world.

Many of the swindles are undeniably amusing, and Fellini succeeds in this delicate balance between comedy and tragedy. The music by Nino Rota understands this conflict well, and helps the film carry it effectively.

Unfortunately, as is often the

IL BIDONE: directed by Federico Fellini; written by Mr. Fellini, E. Flaiano and T. Pinelli; photographed by O. Martelli; music by Nino Rota; starring Broderick Crawford, Richard Basehart, Franco Fabrizi and Giulietta Masina; at the Brattle theatre, Cambridge.

Nevertheless, we feel Fellini's sentiments are sincere, and the climactic sequence with the paralytic girl is impressive. "Il Bidone," one of Fellini's best films, should definitely be seen.

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"Bye Bye Birdie"
1:45, 5:25, 9:10
"Man from the Diner's Club"
3:45, 7:30
Starting Sunday: Garbo in
"Queen Christina"
Marie Dressler in
"Min and Bill"

BRATTLE SQ. TR 6-4226

Fellini's "Il Bidone"
("The Swindle")
5:30, 7:30, 9:30
Saturday Matinee at 3:30
Starting Sunday: Jean Renoir's
"The Elusive Corporal"
3:30, 5:30, 7:30, 9:30
Weekdays 5:30, 7:30, 9:30

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Room 10-250

Admission 60c

Entertainment Series

"THE MUSIC MAN"

Saturday Evening, Sept. 28
6:00 and 9:00 P.M.

Kresge Auditorium

Admission 35c

Deadline nears for applicants for Fulbright overseas study grants

Only a few more weeks remain in which to apply for a 1964-65 government grant for graduate study or research abroad. Competition for the scholarships, available to qualified graduate students under the Fulbright-Hays Act, is administered by the Institute of International Education.

In addition to full grants, which provide round-trip transportation to any one of 51 countries, tuition, and maintenance for one academic year, two other types of grant are available: Joint government grants offered cooperatively by the United States and a foreign country; and Travel-Only awards which supplement maintenance and tuition scholarships awarded by a university, private donor, or a foreign government.

General eligibility requirements are: United States citizenship, a bachelor's degree or its equivalent in professional training, language ability commensurate with the demands of the proposed study project, and good health. Preference is given to applicants under 35 years of age.

Application forms and further information for students may be obtained from the campus Fulbright Adviser, Mrs. Pratt, in room 3-108. Individual department heads also have lists of countries offering opportunities in particular fields. The deadline for filing applications through the campus Fulbright Adviser on this campus is October 18.

In addition to the Fulbright Grants, other scholarships are available to MIT students. They are: Marshall Scholarships, for

any British Commonwealth university; Rhodes Scholarships, for Oxford University, and Deutsche Akademischer Austauschdienst, for German universities.

Information on the Rhodes Scholarship may be obtained from Prof. W. G. Strang in room 2-270. Information on the other two may be obtained from B. A. Thresher in room 1-207.

There will be a meeting at 5:00 pm, Wednesday, October 2, in Kresge Little Theatre for all students interested in jobs, study, or travel abroad.

More flexible ROTC program proposed

A more flexible ROTC program for the nation's colleges and universities has been proposed by the U. S. Department of Defense, and a bill has been introduced into the House of Representatives by Congressman F. Edward Herbert.

This new legislation would permit educational institutions to choose either a 2 or 4 year ROTC program. It would allow Service Secretaries to set up a 2-year scholarship program in lieu of the current 4-year program.

Scholarships Authorized

The bill would authorize scholarships not to exceed \$800 a year for two years, plus \$50 a month retainer for two ten-month aca-

demic years. At MIT, this would mean a total of \$1300 a year during both junior and senior years. In return, beneficiaries would be obliged to serve four years of active duty upon graduation and commission.

The legislation, as proposed, would apply to the programs of all three services which offer ROTC. It is expected to be passed

during the 1964 session of Congress.

The MIT administration favors the 2-year program, and recently adopted administrative measures permitting this year's sophomores to qualify for the program by completing the current 2-year basic ROTC course on an accelerated basis. The Department of Air Science intends to begin the new program in September, 1964.

The scholarships will be awarded on the basis of nation-wide competition, with preference to science and engineering majors. Interested sophomores should contact the Department of Air Science.

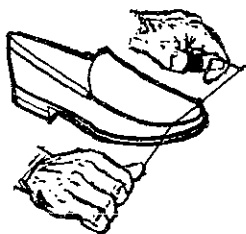
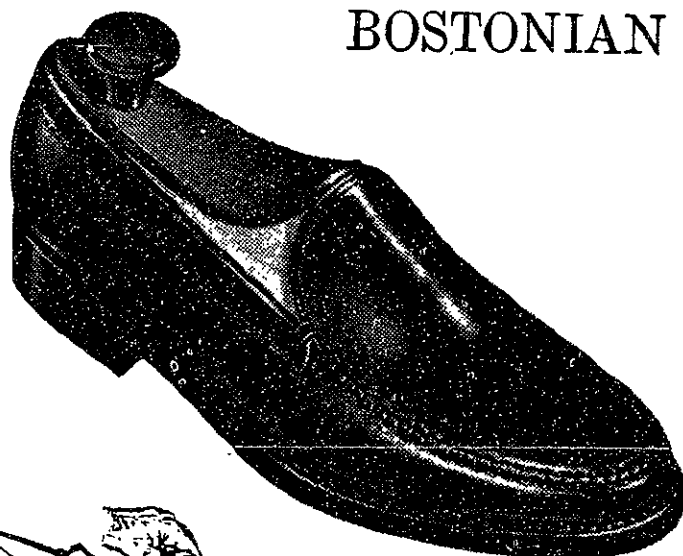
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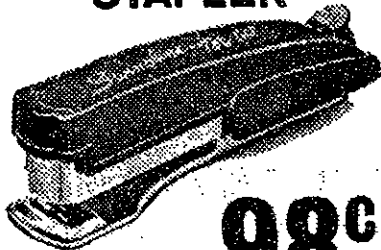
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Experimental bus route in service; runs from MIT to North Station

Experimental Route #2, a new bus service between MIT and North Station, began June 24 as a joint venture of the Metropolitan Transit Authority and the Mass Transportation Commission.

Operating on a six-month trial basis, buses run every ten minutes during the rush hours, and every fifteen minutes during the day, Monday through Friday. There is no service weekends or after 7 pm.

Coming to MIT from North Station, the eight minute route includes stops at Kendall Square, along Main Street, and in front of Buildings 48, 44, and 41. Returning to the station, the buses make several stops along Main Street.

The bus service is being financed by the federal government through the Housing and Home Finance Agency as an experiment to gain further knowledge about passenger reaction to changes in transit service.

At the end of the six-month trial period, the MTA and the MTC will evaluate the experiment

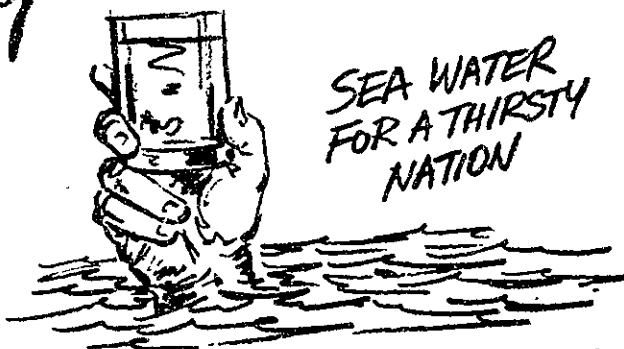
to see whether to continue the service. Of the nine group spokesmen, only Dr. Joseph Maloney, head of the MTC, had any idea of how the two groups would decide this question. "Usually," he said, "it is pretty obvious what to do."

Some of the standards used by transit companies to decide whether to continue a service are: number of revenue passengers per day, gross revenue, percentage of expenses covered and profit or loss per passenger carried.

Since the MTA loses money on most of its lines, all the spokesmen agreed that the line would not have to cover its operating expenses to justify continuing the service.

They added, however, that the present 10-20% coverage is not sufficient to justify running the line without a subsidy from the government. None could cite what level of coverage would be adequate.

What's going on at General Electric?



With America's 1980 water needs predicted at 600 billion gallons a day (twice present volume), G.E. can report progress in its salt-water-conversion program. Its thin-film distillation method now produces water purity to within one part salt per million parts water. FORECAST: You may be drinking "fresh" salt water sooner than you think.

A "KEYHOLE IN THE SKY"

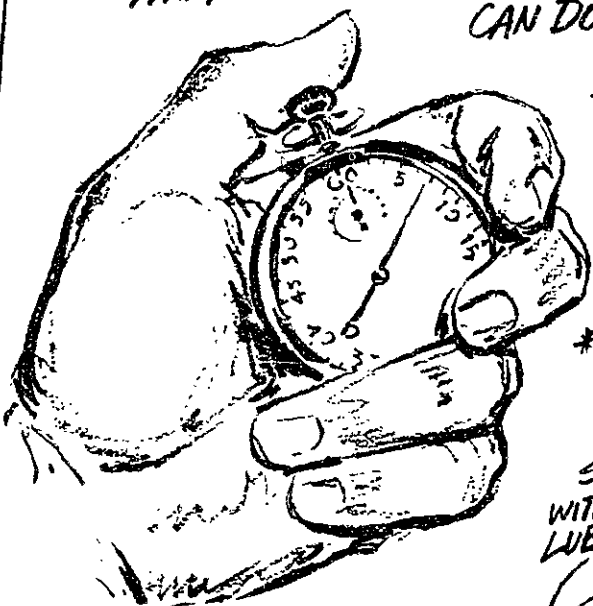
Glenn, Carpenter, Schirra, Cooper... all guided into orbit by G-E radio-command guidance system... operated by team of G-E engineers. Atlas' velocity, flight-path angle and altitude all had to be minutely coordinated to reach a "keyhole in the sky." Altogether, G-E guidance teams has taken part in over 125 successful launchings.

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G.E. has joined with Brooklyn Poly to develop new ideas in graduate education. All qualified G-E people eligible. While getting on-the-job experience, student takes 96 weeks in classes (in 3 years) at Company, taught by university profs and G-E engineers. Student also takes graduate math, physics and engineering at the college. 4th year devoted to preparing dissertation.

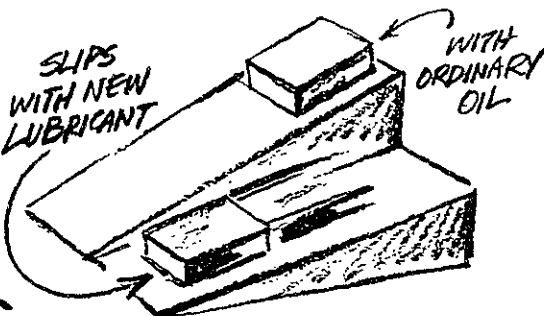


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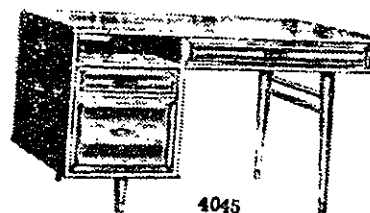
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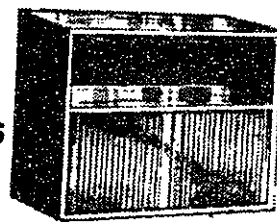
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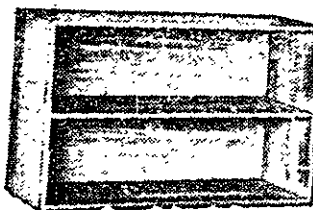
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Apollo work disclosed at press conference

(Continued from Page 1)
translate the data gathered both automatically and by the astronauts into commands which will keep the vehicle on its course.

The Apollo system is being developed by a close-knit team of government, industry and university scientists and engineers.

Overall supervision is provided by the Guidance and Control Division of the Apollo Project Office at NASA's Manned Spacecraft Center in Houston, Texas.

Four Firms Collaborate

Collaborating with MIT's Instrumentation Laboratory on the project are 4 participating contractors: AC Spark Plug Division, General Motors Corporation; Kollsman Instrument Corporation, Kollsman Industries, Inc.; Raytheon Company's Space and Information Systems Division; and Sperry Gyroscope Company, division of Sperry Rand Corporation.

More than 300 engineers and scientists from NASA, Instrumentation Laboratory and the participating contractors presently are working on designs in a leased three-story building at 75 Cambridge Drive. Considerable work, particularly fabrication, is under way at participating contractor plants to support the design work.

Early prototype systems that will be used for testing, including earth-orbiting flight tests, will be built here.

Actual systems and system components that will be used on moon flights will come from participating contractor plants.

Developers reported design on schedule and said guidance and navigation systems will be ready for moon flights when spacecraft and launch boosters are ready. They displayed mockups of the system and prototypes of some of the hardware.

The system will occupy an area about four feet high and two feet deep and three feet wide. It will mount on a wall of the spacecraft.

When astronauts are reclining in their couches and facing up toward the apex of the conical spacecraft for thrust phases of flight, the system will be at the feet of the center crew member.

Center astronaut navigator

The center astronaut will be navigator. His couch will fold away during coasting periods so he can work the guidance and navigation station.

During coast periods (earth and moon orbit, free fall along earth-moon and moon-earth trajectories), the navigator will make numerous angle sightings between stars and earth landmarks or moon landmarks.

Graduate student group reports preliminary plans for proposed intradepartmental weather satellite

An engineering task force of 70 graduate students from seven departments reported May 21 on details of a complete preliminary design the group has worked out for building, launching and operating an equatorial weather satellite.

The student-conceived satellite would follow the earth's equator in a circular orbit at an altitude of about 2,500 nautical miles and send back a continuous television picture, plus infra-red data, of weather as it develops in a globe-girdling belt 4,000 miles wide and centered on the equator. This would fill the gap now left by present and planned weather satellites which follow inclined orbits.

The students planned for a launch at the equator to avoid the major course corrections necessary if the launch were to be from Cape Canaveral. Since no launching facilities on equatorial islands are available, a launch at sea was devised. Naval Architecture students designed a specially-fitted ship to take the rocket to the equator. The booster group designed a five-stage solid fuel rocket plus a launching tube. The rocket and tube would be dropped over the side of the ship and fired from the surface of the sea.

The satellite's giant dumbbell design will provide protective distance between the radioactive

power source, cerium 144, and the electronics.

The students worked out preliminary designs for an inexpensive (\$25,000 to \$30,000) ground tracking and receiving station that underdeveloped nations within the zone covered could build and use to get satellite information for their own local forecasting purposes.

The students organized themselves as a project office with a project manager, a launch facilities design group, a data processing group, a satellite design group, and a management group to coordinate all the concurrent design efforts.

A faculty steering committee

headed by Visiting Professor William Bollay of the Department of Aeronautics and Astronautics supervised the design.

During the course, 13 experts from industry and government came to Cambridge to lecture before the class on specific aspects of the satellite system design problem, including Dr. Fred Singer, director of the U. S. Weather Bureau's National Weather Satellite Center, and the project engineers on such satellites as Transit, Tiros and Telstar. The U. S. Air Force Systems Command flew the entire class to Cape Canaveral for a briefing on rocket launching systems at the Atlantic Missile Test Range.

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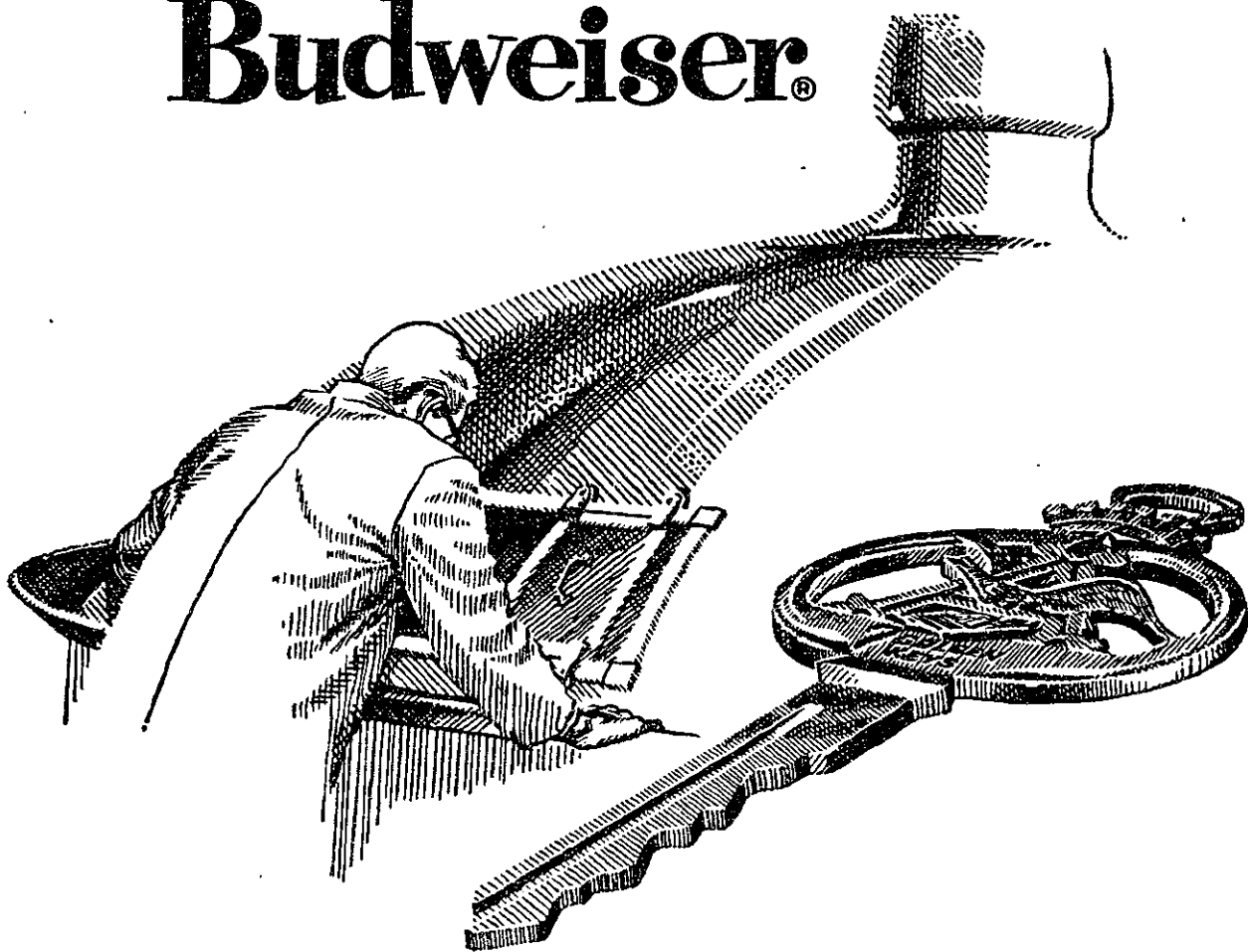
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Maintains crew post

Frailey succeeds Pitre as director of student aid

The Office of Student Aid received a new Director during the summer, as Jack H. Frailey succeeded Thomas P. Pitre. Mr. Frailey is now administering one of the country's most extensive educational scholarship and loan programs. These programs bene-

fit about one-half of the MIT student body.

Mr. Frailey will also maintain another position at MIT, that of varsity heavyweight crew coach. He has held this post since 1959. His association with MIT dates to his undergraduate years. He received the S.B. in Aeronautical Engineering in 1944, and later the Master's and Engineer's degrees in the same field. He has served industry as an engineering manager, and, last year, was appointed

special assistant to Provost Charles H. Townes.

Mr. Pitre, who also held the title of Associate Dean of Student Affairs, has been associated with the MIT aid program since 1930, when it amounted to \$5000. Last year, \$2 million was disbursed in scholarships and loans.

Probed lightheartedly about possible ulterior motives in taking the student aid position, Mr. Frailey was, in the same spirit, quick to acknowledge that as to crew scholarships, "there are just not enough."

Cross country squad ready despite absence of Sigwart

By Gary Sawyer

Despite the loss of their captain, MIT's cross country squad looks forward to improving their last season's record of 6-6-0. "We are in the best shape yet at the opening of the season," commented coach Arthur Farnham.

Chuck Sigwart '64, the squad's captain, will be kept out of school for at least the first term due to medical work on his hand. The squad will elect a new captain after their first meet on October 5.

Sumner Brown '66 will probably be MIT's top runner this season,

according to coach Farnham. "He was without a doubt one of the outstanding runners in this area last year. In fact, he ranked third in New England." Also among Farnham's "top five" are Roger Butler, '65, Dick McMillin, '65, Bill Purves '65, and Rob Wesson '66. Mike Oliver '65 is out of competition temporarily with a broken toe.

The opening meet of the season October 5 will be a triangular meet, the first of its kind for MIT. This is dubbed the "Engineers' Meet," as MIT will compete with RPI and Worcester Polytech at Worcester. During the season, the Techmen will face such schools as Springfield, which was undefeated during the last two years, and Northeastern, which is always strong in New England.

"The boys came back to school with lots of spirit," comments Farnham. The squad has been holding two practices a day for over a week prior to the start of classes. "The way things look now, we're set for a good season - barring injuries."

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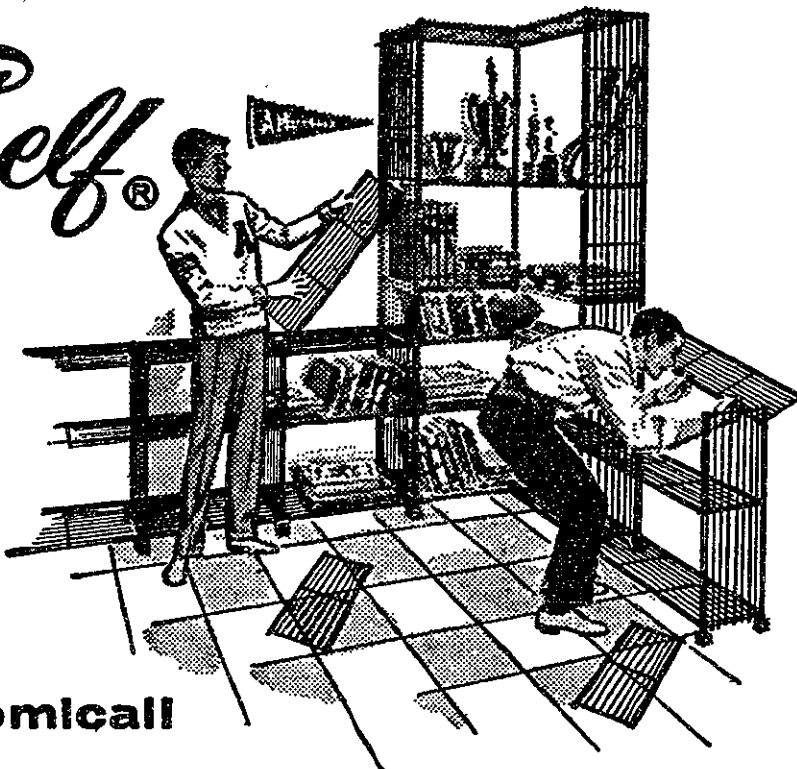
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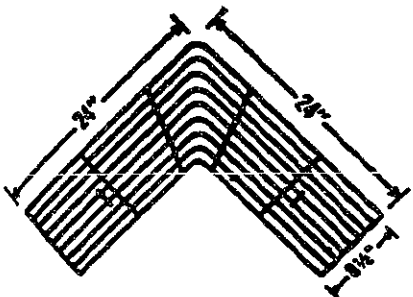
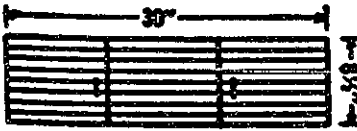
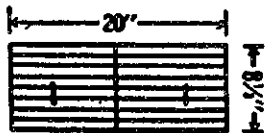
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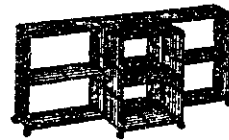
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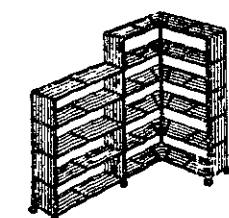
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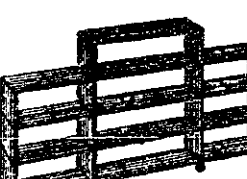
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Panels, 8 Wood Bases.
Assembled Size
40" H x 82" L.

Dr. A. L. Samuel visiting professor

Dr. Arthur L. Samuel, pioneer in machine learning and artificial intelligence, has been appointed visiting professor of electrical engineering at MIT for the 1963-64 academic year.

Dr. Samuel is on leave as consultant to the IBM director of research at the Thomas Watson Research Center in Yorktown, New York, to teach and do research at MIT. He will be closely associated with the Institute's new project, MAC, a major national program on advanced computer systems.

His work has become basic in the development of techniques for making computers learn from their experiences. Dean Gordon S. Brown of the School of Engineering pointed out that his capability is of great economic importance. When fully developed, it will permit the solution of many science and engineering problems.

Dr. Samuel is a native of Emporia, Kansas. He received the A.B. degree in mathematics from the College of Emporia in 1923 and was awarded simultaneously the S.B. and S.M. degrees in electrical engineering from MIT in 1926. He did graduate work in physics at Columbia University and was awarded an honorary Sc.D. from the College of Emporia in 1946.

Dr. Samuel joined the research staff of the Bell Telephone Laboratories in 1928, where he engaged in research on ultra-high frequency electron tubes for 18 years. He holds over 250 patents—200 of which are foreign.

Professor Emeritus dies at age of ninety

Professor Emeritus Walter H. James, who retired from the Institute in 1938, died Sunday at the Mount Royal Nursing Home in Newburyport, Mass. He was 90 years old.

A graduate of the Institute in 1896, he returned to MIT in 1900 as an Assistant in Mechanical Engineering and became an associate professor in 1923.

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MIT, Boston University to pioneer fall baseball in Greater Boston area

MIT's baseball team meets Boston University today in the first of four games to be played this fall between the two rivals. The game will mark the arrival of a fall baseball season to the Greater Boston area for the first time. Jack Barry, Tech baseball mentor, has been a prime mover in the organization of fall baseball on the Greater Boston College scene. Fall baseball is already a success in the Metropolitan area, and Barry feels that New England colleges could play baseball during the early autumn New England weather.

The short Spring season has in the past left time for only 18 or 20 games, and Coach Barry opines that additional fall games would augment this schedule.

All the fall games scheduled will be played at Briggs Field, MIT.

Frosh Sports

Two squads successful

By Charlie Willman
MIT's freshman athletic teams were able to muster winning records in only two fields of endeavor last Spring. The sailors swept the New England college championships, and the netmen eked out a 6-5 record.

Tennis
The tennis team compiled a 6-5 record during the Spring season, winning four of their last six matches, including 8-1 and 9-0 drubbings of Milton Academy and Dean Junior College. Paul Ruby and Richard Thurber, the numbers one and two singles men respectively, were the mainstays of the squad.

Track
The cindermen, led by Rex Ross and Sumner Brown, had a fair record of 4-6, but scored an impressive victory in the freshman medley relay at the Eastern

championships in May. Ross led the team in individual scoring with 89 points, while Brown tallied 69. Brown was voted the Outstanding Freshman Athlete Award for his performances in cross-country, and indoor and outdoor track.

Baseball
The freshman nine won their last two games of the year, against New Prep and Newton Junior College, to finish their season with a 3-7 record. The outstanding performers were shortstop Tom Bailey, who led the team in batting with a .308 average, and pitcher Larry Calof, who won all his team's games, and amassed a 3-3 won-lost record. Calof had 83 strikeouts in only 60 innings of pitching, and a 1.63 ERA.

Golf
The golfers finished their sea-

Spring Roundup

Greata, Morrison, Michael appointed

Peter Close, Sports Information Director, recently announced the appointments of three new coaches. They are John M. Greata, '63, David Michael, and William S. Morrison.

Lacrosse
After winning their first match of the year, 8-2, over Cambridge School, the lacrosse men went on to drop seven of their remaining eight contests. A 5-4 victory over Tufts earned the squad its 2-7 record. Team standouts were Pete Kirkwood and Pete Grant.

Sailing
Sailing was the most successful sport on the frosh program last Spring. The Tech tars captured the top spot among all New England colleges in this activity. Terry Cronburg won the individual championship to lead his team to victory.

Mr. Greata is an electrical engineering teaching assistant in addition to freshman lightweight crew coach. He replaces Richard Resch.

Mr. Michael, a graduate of Springfield College, is the freshman swimming coach. He replaces Tom Murray in this capacity. In addition to coaching freshman swimming, he will hold the newly created position of freshman lacrosse coach. He comes to us from Mount Vernon, New York, where he was a high school physical education instructor.

Mr. Morrison, also a graduate of Springfield College, will coach freshman soccer and varsity skiing, and instruct physical education classes. He replaces Jens Jorgensen. Mr. Jorgensen will assume freshman skiing responsibilities.

Paradise Cafe wins 20, loses 1, snatches summer softball trophy

By Marshall Weissberger
Paradise Cafe, with a 20-1 won-lost record, unseated Graduate House as the champion of the 10-year-old MIT Summer softball league by defeating Instrumentation Lab in the final game of the playoffs. Play lasted from mid-July to mid-August with all games taking place at Briggs Field on weekday evenings.

The league consisted of the following teams: Graduate House, Metallurgy, Economics, Instrumentation Lab, Paradise Cafe, Dorm Guys, Chemical Engineering, and Biochemistry.

All teams played a fourteen

game schedule, and the top four teams — Paradise Cafe, Dorm Guys, Instrumentation Lab, and Economics—were in the single-elimination playoff.

The playoff results were as follows: Paradise Cafe defeated Economics, and Instrumentation Lab defeated Chemical Engineering. Paradise Cafe then defeated Instrumentation Lab for the title.

Hank Hobbs and Jim O'Brien handled the mound chores for the champs Hobbs recorded 12 wins and no losses while O'Brien won eight and dropped one. Roger Travis a metallurgy staff member, who co-ordinated the league, played first base for the new champs.

The league was open to all students and staff of MIT during the summer, and the teams were composed chiefly of staff members. A permanent trophy with the winning team-name inscribed upon it is on display in the Dupont Athletic Center.

On Deck

Friday, September 27
Golf — Rhode Island, Vermont, Home, 12:30 pm
Saturday, September 28
Sailing — NEISA sloop championship at Coast Guard
Sunday, September 29
Sailing — Quadrangular Regatta at Coast Guard
Sailing — Heptagonal at Brown (F)
Tuesday, October 1
Soccer — WPI, Home, 3:00 pm
Soccer — Medford High School, Home, 4:00 pm
Golf — Brandeis, BC, Away, 1:00 pm

Guest poetry readings on local radio station

WGBH-FM, Boston's educational radio station, is presenting MIT's 1962 guest poetry readings in a series entitled "Poetry from MIT" each Sunday at 7 pm throughout the month of October. The series begins with Denise Levertov on October 6, continues with Theodore Weiss on October 13, David Ferry on October 20, and concludes with the readings of X. J. Kennedy on October 27.

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